

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 33, 34, 37-61, and 64-69 are pending in the present application, Claims 33, 39, 45, 49, 51-54, 56-59, 61, and 64-67 having been amended, Claims 68 and 69 having been added, Claims 35, 36, 62, and 63 having been cancelled without prejudice or disclaimer, and Claims 56-67 having been withdrawn. Support for the present amendments is believed to be self-evident from the originally filed specification and claims. Applicants respectfully submit that no new matter is added.

In the outstanding Office Action, Claims 35 and 36 were objected to; and Claims 33, 34, and 37-55 were rejected under 35 U.S.C. §102(b) as anticipated by MacDonald (U.S. Patent 5,363,021).

The objections to Claims 35 and 36 is moot in view of there cancelation.

Applicants respectfully submit that the amendment to Claim 33 overcomes the outstanding ground of rejection. Amended Claim 33 recites, *inter alia*,

a first structure including a plurality of emitting
sources of electron beams;

a second structure including a plurality of
diaphragm openings; and

metallic balls made from at least one of fusible
metal alloys and gold interposed between the first structure
and the second structure and hybridizing the first structure
with the second structure.

MacDonald does not disclose or suggest every element of amended Claim 33.

Page 3 of the Office Action takes the position that gate electrode layer 16 of MacDonald equates to the claimed “second structure.” In MacDonald, the emission of electrons takes place at the tips that protrude above the gate electrode layer 16. Thus, the

emission takes place above gate electrode layer 16. Layer 16 of MacDonald controls the quantity of electrons emitted, but does not limit the divergence of the beam.

Gate electrode layer 16 of MacDonald is not hybridized with array 10. Amended Claim 33 further clarifies the hybridization, which is accomplished by metallic balls made from at least one of fusible metal alloys and gold interposed between the first structure and the second structure. There are no metallic balls interposed between gate electrode layer 16 and array 10 of MacDonald. Rather, there are oxide support pillars between the array 10 and the gate electrode 16. The use of oxide support pillars is not hybridization as defined by amended Claim 33. Thus, MacDonald does not disclose or suggest the claimed “metallic balls made from at least one of fusible metal alloys and gold interposed between the first structure and the second structure and hybridizing the first structure with the second structure.”

In view of the above-noted distinctions, Applicants respectfully submit that amended Claim 33 (and any claims dependent thereon) patentably distinguish over MacDonald.

Applicants respectfully submit that new Claim 69 patentably distinguishes over MacDonald. Claim 69 recites, *inter alia*,

a first structure including a plurality of emitting sources of electron beams;

a second structure including a plurality of diaphragm openings; and

one or more films with anisotropic conduction interposed between the first structure and the second structure and hybridizing the first structure with the second structure.

MacDonald does not disclose or suggest every element of Claim 69. As characterized above, the oxide pillars of MacDonald do not equate to the claimed “one or more films with

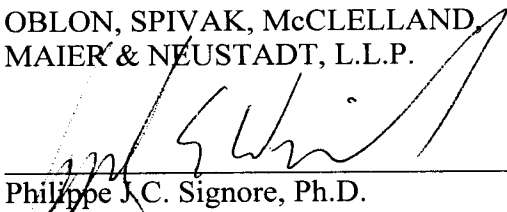
anisotropic conduction interposed between the first structure and the second structure and hybridizing the first structure with the second structure.”

In view of the above-noted distinctions, Applicants respectfully submit that amended Claim 69 patentably distinguish over MacDonald.

Consequently, in light of the above discussion and in view of the present amendment, the present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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